NEW SLETTER

October 1986

MEETING NOTICE:

October's Meeting for the 4th Wednesday will be held at 780 Manx Ave., in Campbell. It will start at 7 PM sharp!!!

NEW CLUB MEMBERS:

Les BLEND Phillip WILLS Rose ANZURES
AL NETCKE

The Club would like to extend a great BIG WELCOME to these new members and the "oldtimers" look forward to meeting them personally at the meetings. See you there.

COPYRIGHT LOOPHOLE EXPOSED:

Did you know how it was manipulated so that stores could legally rent softwares? Did you know it was always legal? The copyright law "FIRST SALE DOCTRINE" of the U.S. Copyright Laws allows buyers of copyrighted works to dispose of them in anyway they choose. This "loophole" is the reason softwares are rentable. The same rules govern all buyers of softwares. You should note that laws are being introduced to eliminate this loophole. You will know when the new laws become effective – it will be when the rental store disappears.

GILL CABLE SERVICE "X-PRESS":

This is a one-way electronic news, financial and information service delivered via satellite and cable directly to home or office personal computers. "X-PRESS" carries live, unedited news, stocks, and information from over 30 of the world's foremost news sources 24 hours a day, stock quotations from sources such as "New York Stock Exchange-Business Week", and United Press and Tass. "X-PRESS" tracks up to 128 individual stocks through each trading day, plus all other stocks. Just ask club member Jerry BEIN. He connected to it with his MS-DOS computer, but he could have also used his Apple computer. It works great and is easy to use. Is he richer for using the service? I'm sure it was beneficial in many ways. The unit and the connection cost less than "COMPUSERVE" and you use it at your leisure. I had him demo it for me. I wish I had a use for it but I'm too broke to use it. If you have Gill Cable TV Services it would cost you an installation line to your computer and a monthly rental fee. If you belong to other cable services, you're out of luck. This is a Gill Cable TV Service only.

NEW TANDY PRODUCTS:

Did you see the new computers that Tandy has created? The MS world will not be the same. The machines are going to control the MS-DOS world quickly. Their development of these machines are targeted to take over the IBM machines and their clones too! Come to our meetings and look at the articles describing them in PCM magazine. The book and the new Tandy computer catalogs are at my home during the month too!

SCREEN CODES

A screen control program for the Model 100, Tandy 200 and NEC 8201.

```
1 REM ... "PRGNAM.BA"

2 REM ... last revised: mm/dd/yy

3 REM ... by James R. Avoli, C.D.P.

4 REM ... comments go here

5 ES$=CHR$(27): REM ... <ESC> escape

6 WB$=ES$+"p": REM ... White-on-black

7 BW$=ES$+"q": REM ... Black-on-white

8 CN$=ES$+"P": REM ... Cursor on

9 EL$=ES$+"I": REM ... Erase cursor's entire line

10 CL$=ES$+"K": REM ... Clear to end of cursor's line

11 CD$=ES$+"J": REM ... Clear to end of display

12 CS$=ES$+"E": REM ... (CLS) Clear screen

13 BL$=CHR$(7): REM ... sound the bell
```

Screen Control Codes for the Model 100, Tandy 200 and NEC 8201

<esc> ◆</esc>	CHAR\$(27) +CHR\$(##)	MEANING/ FUNCTION
i	106	Clear Screen
ί	108	Erase cursor's entire line
P	112	Reverse video
q	113	Normal video
A	65	Move cursor up 1 line
B	66	Move cursor down 1 line
č	67	Move cursor right 1 column
Ď	68	Move cursor left 1 column
Ē	29	Clear screen & HOME cursor
ī	74	Erase from cursor to end of display
K	75	Erase from cursor to end of line
Ĺ	76	Insert from a line
M	77	Delete cursor's line
P	80	Display cursor
'n	81	Erase cursor
Q T	84	Display function keys
ບໍ່	85	Erase function keys
v	86	Inhibit scrolling
w	87	Enable scrolling
Y	x,y	Position the cursor at the location codes computed for X and Y.

Note that the last item is difficult to implement because it codes for row and column locations, not the actual location addresses. Therefore, it's much easier to use the PRINT@ command, and let BASIC do all the computational work for you.

```
100 PRINT@120,"Continue with default of ";X;"(Y/N)? ";CL$;CN$;:I$="""
200 I$=INKEY$
:IF I$=""" THEN 200
ELSE IF I$=E$$ THEN STOP
ELSE PRINT I$;
300 IF I$="Y" OR I$="Y" THEN 600
400 IF I$="N" OR I$="N" THEN 500
ELSE BEEP
:GOTO 100
```

It's a big advantage to highlight important text or data as part of the prompt, and reversing the colors is a simple task when you already have the means established to insert the reverse and normal control codes:

```
100 PRINT@120, "Continue with default of"; WB$; X; BW$; "(Y/N)? "; CL$; CN$; :I$-""
```

It's also a nice touch to plant the date and time in a "standard" heading subroutine for each screen:

```
5000 SCREEN 0,0
:PRINT CS$;WB$;TAB(14);
"Program Title";TAB(40);DATE$
"@";TIME$" J. Avoli
<ESC>QUIT";BW$;BL$: RETURN
```

Note that in this instance, it's more efficient to add BL\$ to the PRINT command than it is to tack a separate BEEP command onto the end.

For those less-used control codes, a complete list is given in the accompanying table. Keep in mind that most of today's computers and modern display terminals use this type of control code mechanism. Except for the complex X,Y position codes (I've been told that this is one of the less famous ANSI standards), they're almost guaranteed to be different for each manufacturer; the Tandy and NEC machines are the exception to this rule. Even so, all you have to do is edit a clone of this source code to match the codes of whatever computer or terminal that you're going to use, and you can transport this technique to any version of BASIC to run on any computer to support any display device.

So there you have it — easy enhancements of displays in all your programs if you begin each new program with the immediate command:

MERGE "LCDCTL

or whatever file name you used. Good luck!□

CLUB SERVICES

FOR THOSE WHO ARE COMTEMPLATING MEMBERSHIP OR RENEWAL MEMBERSHIP, THESE SERVICES ARE YOURS TO USE THROUGHOUT THE YEAR. DUES OF \$25.00 PER YEAR IN THIS CLOSED MEMBERSHIP CLUB ARE REQUIRED.

MONTHLY NEWSLETTER

The articals are selected from the many publications the club recieves plus comentarys from the club director and the membership.

BULLETIN BOARD SERVICE

Messages and programs transfer along with postings of other club services and events, free to everyone, for learning the modem system or selling or buying of equipment. The bbs is designed for all types of equipment. It is on-line 24 hours-7days 300-1200 baud.

BOOK OF THE MONTH

The club is active in a computer book club in which each month a hard cover book is obtained for the club membership. These books are checked out for 30 days. Monthly magizines are also included in this catagory..

80 MICRO MODEL I-III-IV-IVP
F.M.C. MODEL 1000-2000-3000
PORTABLES MODEL 100-200-600
CODEWORKS ALL BASIC PROGRAMING

COMPUTER SHOPPER ALL MACHINES NATIONAL PRICING ECT.

P.C. WORLD ALL M.S. DOS APPLICATIONS
P.C. MAGAZINE ALL F.C. CLONE M.S. MACHINES
COMPUTER CURRENTS ALL LOCAL BI-WEEKLY MAGAZINE
MICRO TIMES ALL LOCAL MONTHLY MAGAZINE

ASSORTED RETAIL CATALOGS MONTHLY

CLUB'S I.B.M. CLONE

This machine runs the club bbs system. it contains an assort-ment(cards) for modifying M.S. dos programs and storage of public domain programs. It is available for club members (by appointment) for special purposes. The machine stays at my home always, but individuals may use it there.

PROGRAM OF THE MONTH

Each month the club buys a program (less than \$50.00) for all the machines in the club. It is evaluated by members that have an interest in that program. This program is usually shown at the 4th wed. meeting.

DISK SALES

quanities The club stocks 100 disks monthly that members may buy at they need. Cost per disk is not the lowest, but the quality is the best for the cost.

5 1/4 disk d.s.d.d. \$10.00 per box of 10 disks 3.5 inch disks s.s. \$22.00 per box of 10 disks

ARCHIVES LIBRARY

for the trs-80 machines. These may be used by request. As this is a private collection it's not programs to be sold or bartered.

REPAIR SERVICES

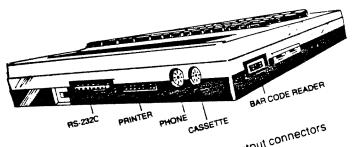
The club's membership contains repair oriented personal capible of repairing-modifing-or up-grading all the club's assortment of machines. These repair personal do quality work at a verymodest cost. Each is reliable and knowledgeble in the earliest-latest computers.

INFORMATIONAL SERVICES

The club headquarters is available every day for those who require help in programming-hardware installation-or just gossip. Each person's problems are a priorty and are treated with care..

NOTORIETY

Our club has obtained FAME nationally-internationally-as well as locally. This in itself is an HONOR for all of us. Our HELP to others is well known throughout the world.



TO S. RO MODEL 100 input/output connectors

The TRS-80 MODEL 100 input/out	
TRS-80 MODEL	•
The I'rd	RS-232C Intertace
Figure 1	Description
	Pin No. Symbol Transmit Data
ce (Centronics)	2
Parallel Printer Interface (Centronics) Description Description Strobe pulse from Computer to Printer.	
Parallel Parallel From Computer to	A Data set ready
	DSR
Pin No. Symbol Strobe pulm. STROBE Ground GND BR 0 (1 sb) of output data byte	6 6
1 GND BX 0(1 ab) DI	7 NC
2 POO Ground Grate byte 3 GND bit 1 of output date byte	8 18
3 GND bit 1 of oute	10 NC
4 PO1 Ground control deta tryls	
4 PO1 Ground Ground deta byte 5 GND BH 2 of output deta byte	No.
Ground data by	
7 GND BR 3 of Out	14 NC
PUS GIOLA GARANTONIA	15 NC
9 GND Br 4 of oury	16
11 S S S S S S S S S S S S S S S S S S	- 10 No.
12 PD5 Ground 13 GND Bit 6 of output data byte	18 Data termi
13 GND Bit 6 of output	DTA
14 PO6 Ground Ground data byte 16 GND BR 7 of output data byte	20
16 GND BN 7 of output	22 NC
10 BO? Ground	
17 GND ONENES	
18 MC Ground Computer from F.	
19 GND IMPUT 10 CM	
ausi Ground	
22 NC Ground Ground Computer from Printed. 23 GND Input to Computer from Printed. 24 BUSY High Indicates device selected.	
24 BUSY Nigh Indicates device	
\ \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	in in in in a second
36 NO 13 " " "	The The

allel printer port

COLOR COMPUTER 3

It is called the "elegant" machine of the Tandy world. It is truly worthy of the Tandy Logo "BETTER AGAIN". What does it have to offer? It beats me. We don't support it in our Club. Why not? Simply because it has too many incompatabilities with its own hardware peripherals and it's too specialized - sort of in its own world.

THANKS TO COMPUTER CURRENTS:

The Club is very thankful to our local magazine for obtaining a Computer Club Booth at the Silicon Valley EXPO. The 12th, 13th, and 14th of September were our days to shine here in the Valley. We have given the "TRASH-80's" a big push forward. We also want to thank Bart, at our Special "Radio Shack" for his donation of the equipment. Also, to all you who donated your time and effort to make this EXPO a BIG splash. THANKS!!!

EXPO POWER:

What did our Club gain at the EXPO? How did it enhance us? Was it worth all the time and effort? These questions require answers each time the Club rallies to an EXPO or a SWAP meet. Did we meet our objectives at the EXPO? The answer is YES! We gained a lot of exposure to the Public, to our Vendors, and to our members and potential members; as well as to other Clubs. Our being at the EXPO gave support to the Tandy machines and to those who sell them locally. In return, they should be more willing to assist our Club and its individual problems (more than they are required to). This is a big PLUS for our Club.

Unity between members, who normally don't come in contact with each other during the month, also happens, and we get to show off our knowledge to those who need problems solved. Being at the EXPO proved to our members, as well as to strangers, that our Club is filled with people who know the machines and have the correct information to help solve many problems, both with the Software and with the Hardware. Also, with the types of equipment shown, it shows that our resident repair people can create and maintain all configurations of Tandy equipment. Finally, it should provide new Club memberships for our time spent at the EXPO. Being there allows us the publicity to gain new Tandy users and some veteran TRS-80 owners. Our advertising in this manner keeps our Club active and enhances us with the Vendors as well as other Tandy owners, and those who are considering buying new or used equipment.

We did gain a lot at this EXPO '86. Our being there was worth everyone's effort and time.

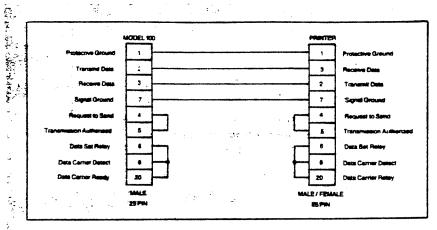


Figure 4 Typical RS-232C serial printer cable connections

	Bar Code Reader			
Pin No.	Symbol	Description		
1 .	NC			
2	RxDB	Receive data from bar code reader		
3	NC			
4	NC			
5	GND	Ground		
6	NC			
7	GND	Ground		
8	NC			
9	YDD			

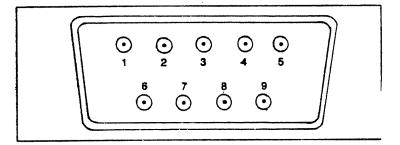


Figure 5 The bar code reader port

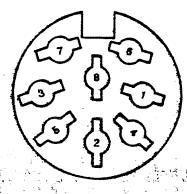


Figure 6 The cassette port

	Cassett	e Interface
Pin No.	Symbol	Description
3	REW 1	Remote
2	GND	
.	REM 2	Remote
4	RxC	Receive data for CMT
	TxC	Transmit data for CMT
6	GND	GND
*	ilec (
8	NC .	

Input Level: Inpedance 100ohm(800,mV-5Vpp)
Output Level: Inpedance 3.3Kohm (650m Vpp)
REMote: 6 VDC 0.5A max.

TO WHOM THE BELL TOLLS:

The IRS recently issued this warning: "Software companies and others who prepare and sell computer programs for use in preparing Income Tax returns may be considered Return Preparers and therefore subject to certain penalties." This admonishment, which has the force of Law, affects programs that provide "substantive" Tax instruction rather than merely "mechanical" assistance. I'm not sure that you could reap benefits from this warning, but, the Software Policy in the Warranty disclaimer won't stop Software companies from being penalized. I'm sure that you would have it rough being between a major Software firm and the IRS, should it ever happen.

PACKET RADIO:

A new addition at the house this month is \$600.00 of packet radio. What is that? Well, if you were a Ham radio hobbiest, you would want this connected from the radio set to your computer for a neat quick transfer system. It replaces your Modem and the telephone. The only catch is that you must obtain a Ham Radio License of Technician Level, or higher, to use it. It offers all the frills of radio and the computer. The effort in obtaining the Ham Radio License is worth the value of the packet system, plus, you will learn about all the Electronics that spins this world of ours. You may even end up fixing that old toaster too!

SCRIPSIT PRO:

This is the latest, and best, word processor for the Model 4. You have to have the 128K Memory capacity machine. This new word processor program seems to have corrected all the original SuperScripsit (Model 4) problems. It has also added a HELP file, a spelling checker, and a window system. For \$250.00 you can continue the quest for a more perfect word processing program. It contains printer drivers for all the Radio Shack printers, but none for the other more popular printers. The spelling checker contains 53,000 words and you can add about 1,300 words of your own design. The manual is easy to understand and sectioned so you read what you need for your own applications. Switching from the other word processors isn't going to gain you anything, but if you plan to stick to Tandy products, it is worth buying.

TRANSFER M 100 TO MS MACHINES:

The transfer is easy if it's a Basic Program. If it is a Machine Language Program, it's nearly impossible. Here is how it's done:

Ist: Connect a Null Modem cable between the two machines. Enter "BASIC" on both machines. On the transmitting M 100 machine, press F3 and then type in "COM:98NLE". On the other machine, press F2 and type in "COM:98NLE". Then press ENTER on both machines. The cursor on both machines should then disappear. When the transfer is complete, the "OK" prompt should appear on both machines. On the receiving machine, press F3 - type the name you are calling the program.

Should you want to read about the Machine Binary File Exchange, see me and ask to read the information.

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PROGRAMMING ERRORS AND REFAIRS

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COMPUTER CLUB REVIEW

FRINTERS-PATCHES-PROTICOLS

MEETINGS:

WORKSHOP	LECTURE
SATIPM	WED.
2ND	HT.

NOTES:

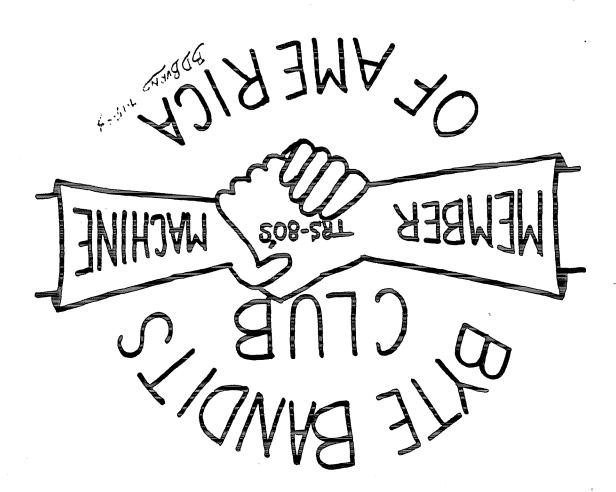
- 1. MEMBERSHIP REQUIRED
 2. GUESTS..BY APPOINTMENT ONLY

INFORMATION...CALL 408-379-2774

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This club has been established to provide its members total computer knowledge using "hands-on" application during the meetings. For better understanding of existing hardware and software in an Informal-social club atmosphere.

novice and amateur home computer entusiasts; young and old, male and female, school, home, business and We hope to provide members close contact between hobbiest



Byte Bandits of Amer. TRS-80's Computer CLb 180 Manx Ave. Campbell, CA 95008





